

ELECTROMAGNETIC SUSPENSION SYSTEM

ABSTRACT OF THE DISCLOSURE

An electromagnetic suspension system comprises a universal joint mechanism for permitting radial movement of 5 a cylinder relative to a center yoke while preventing axial movement of the cylinder relative to the center yoke. Since the cylinder is capable of radial movement relative to the center yoke, if a lateral force acts on the cylinder, the lateral force acting on a hydraulic damper does not 10 have any significant effect on the center yoke 17, with respect to radial movement or rocking movement thereof. Therefore, excessive sliding friction does not occur in a center-yoke dry metal and a piston-rod dry metal, thereby ensuring smooth axial relative displacement between the 15 center yoke and an outer yoke.